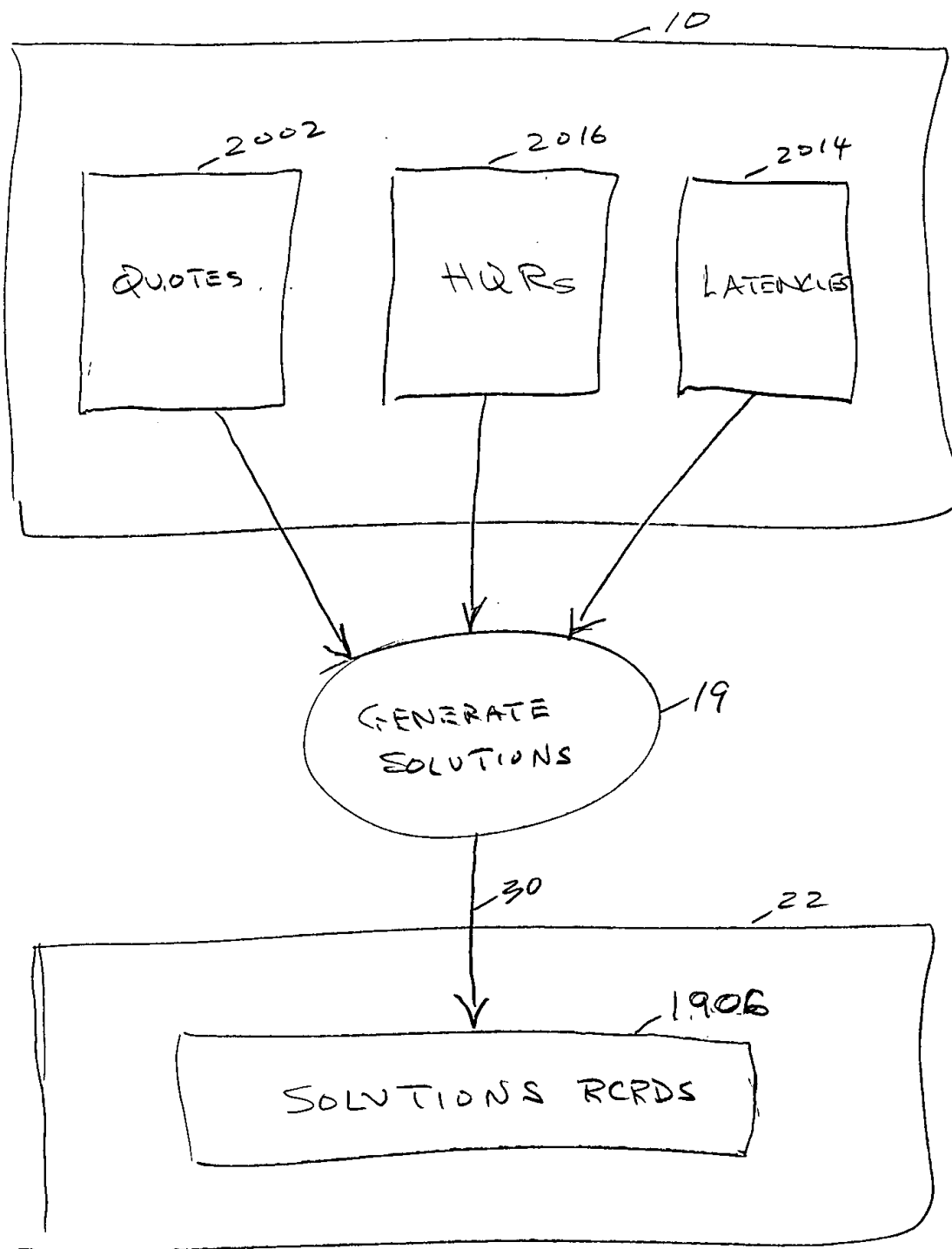


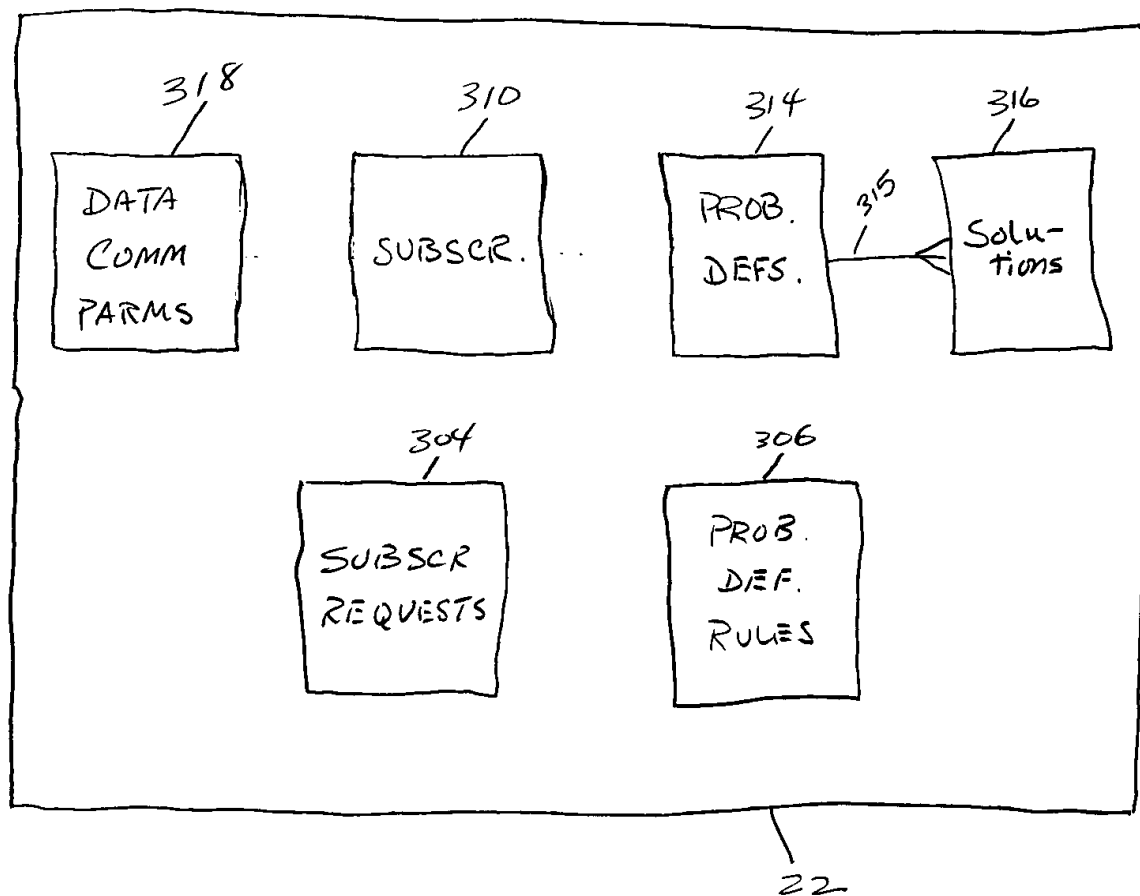
Fig. 1.

09576947.052500



GENERATE SOLUTIONS

Fig. 1A



DATABASE

Fig. 2

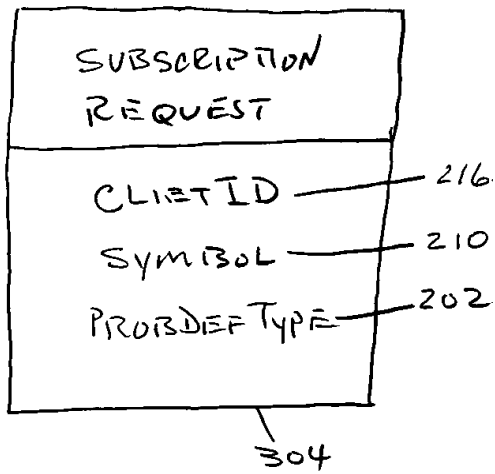


Fig. 2A

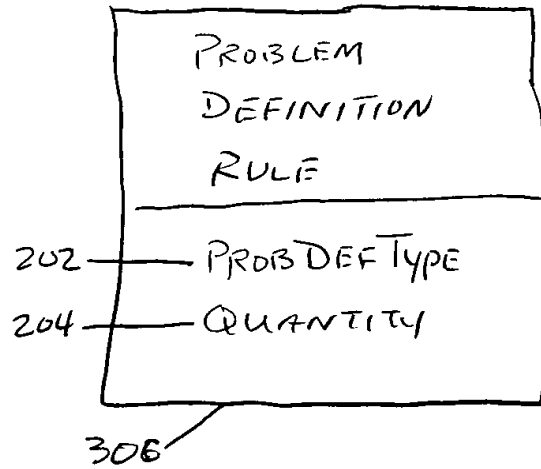


Fig. 2B

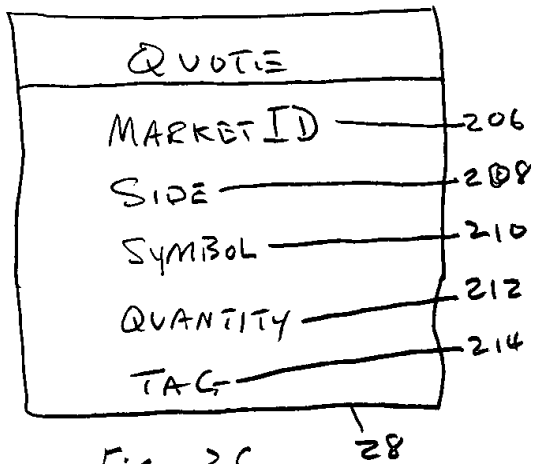


Fig. 2C

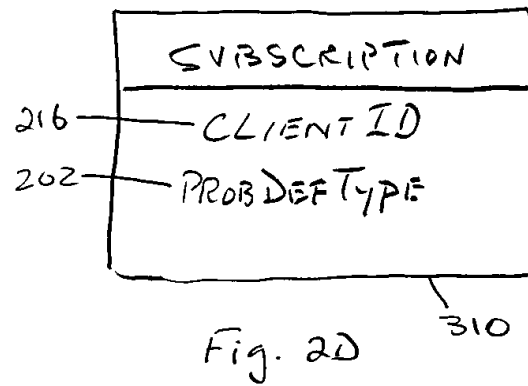


Fig. 2D

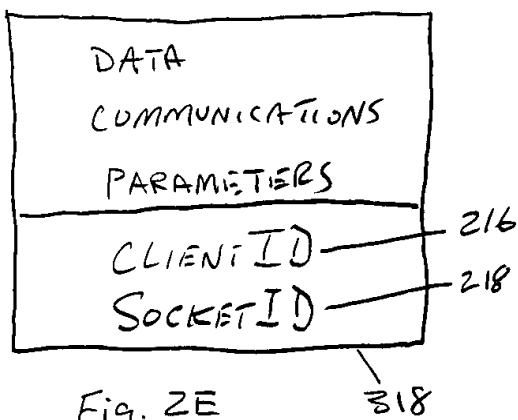


Fig. 2E

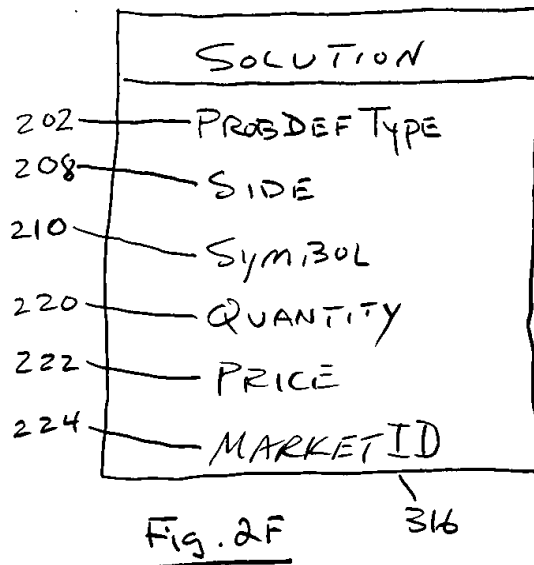


Fig. 2F

Figs. 2A - 2F

05576947-055500

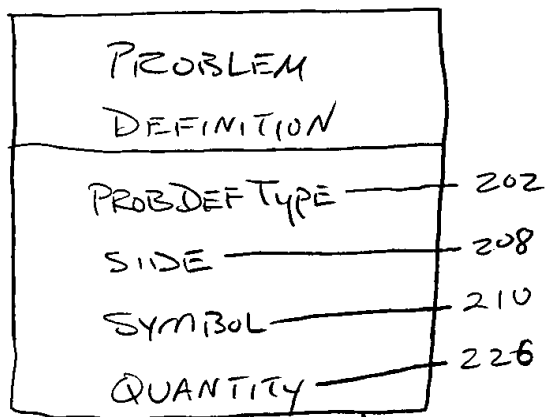


Fig. 2G

314

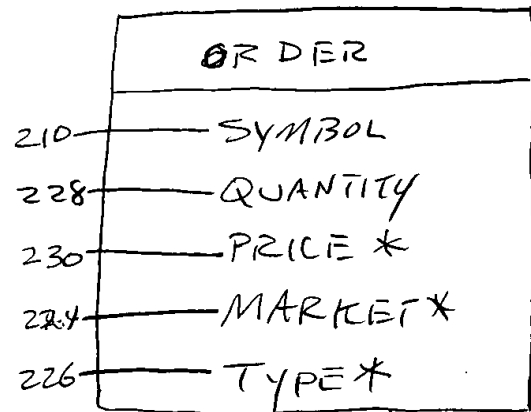
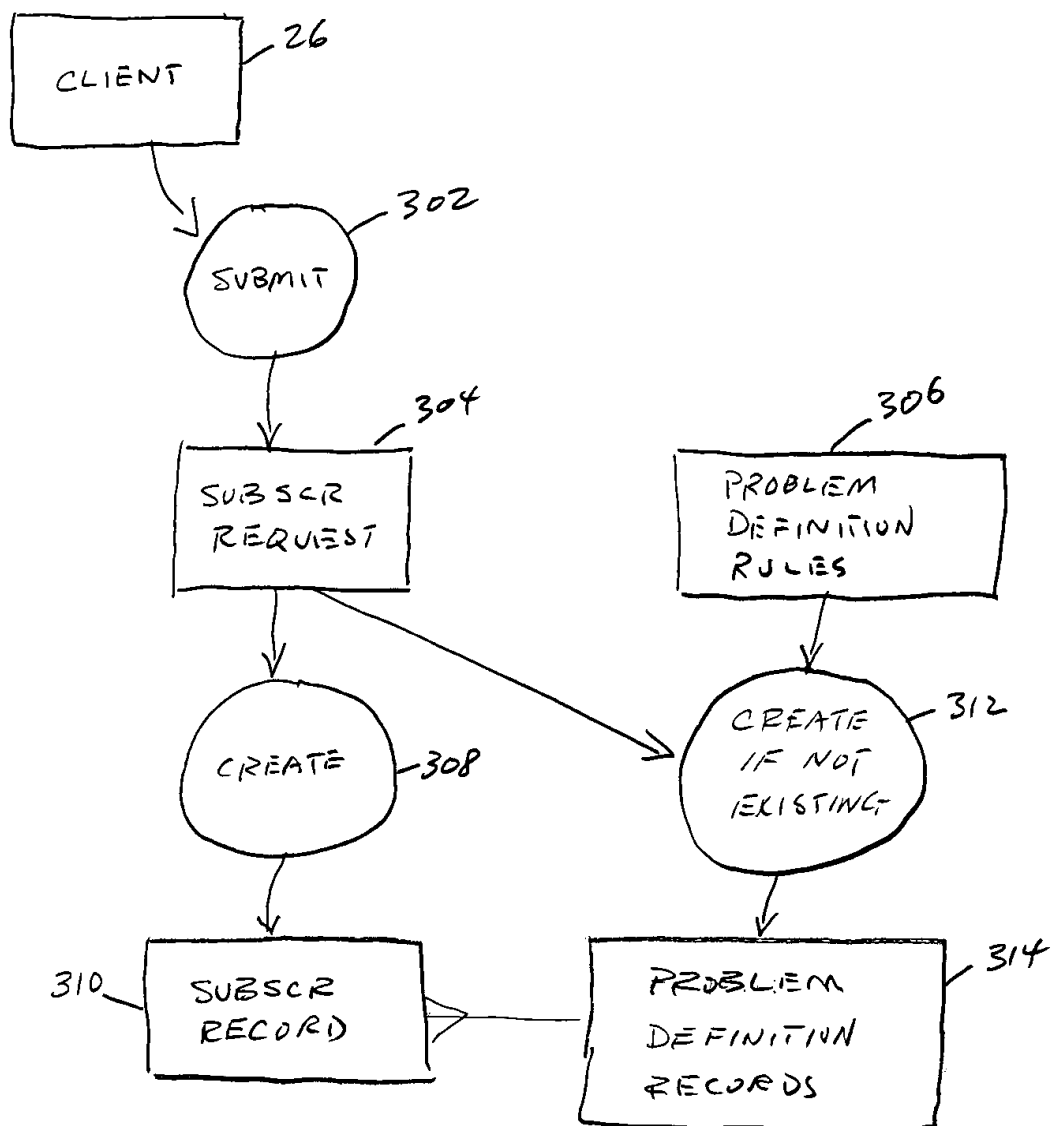


Fig. 24

606

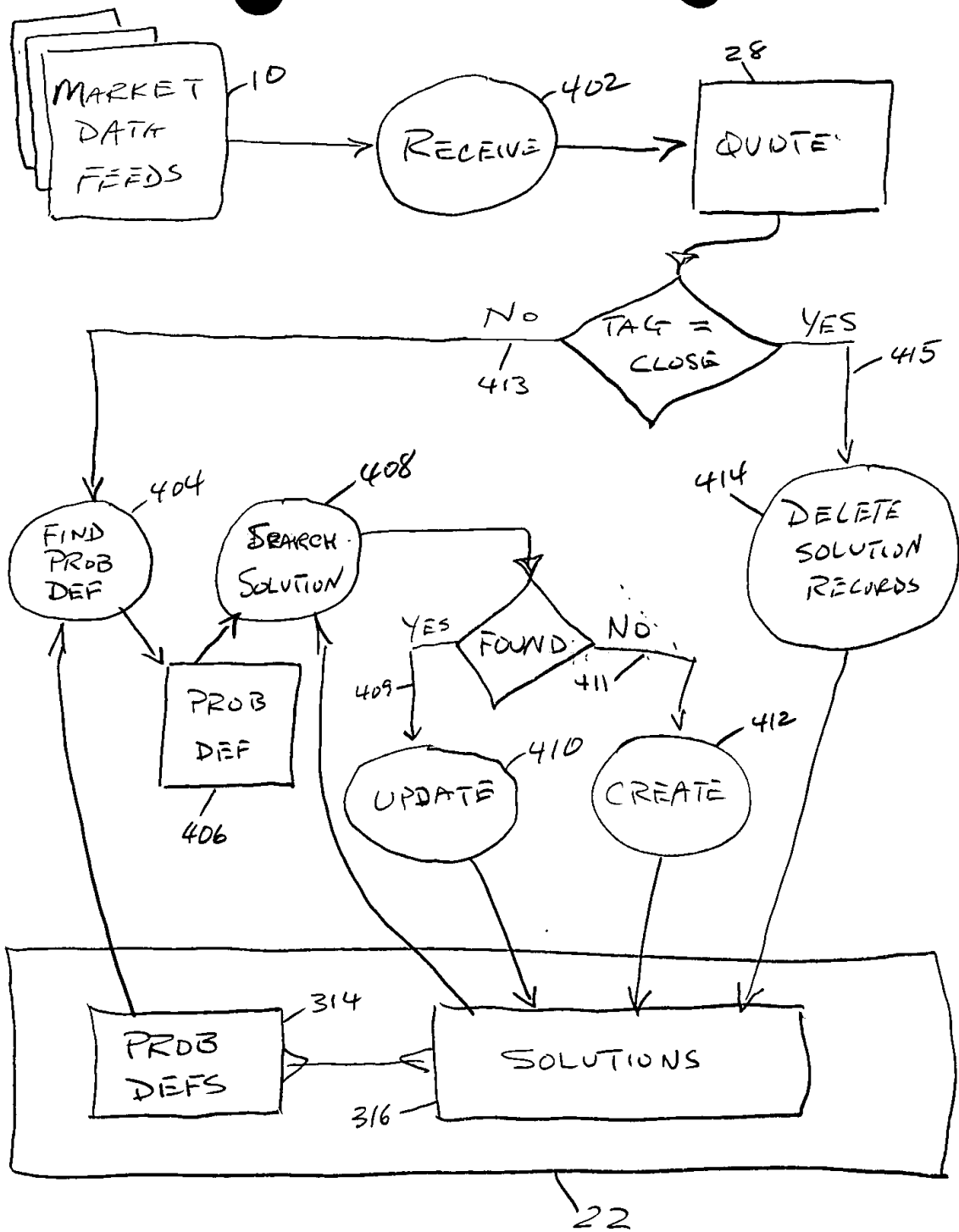
* OPTIONAL ELEMENTS

[illegible]

20 ↗

SUBSCRIPTION ENTRY

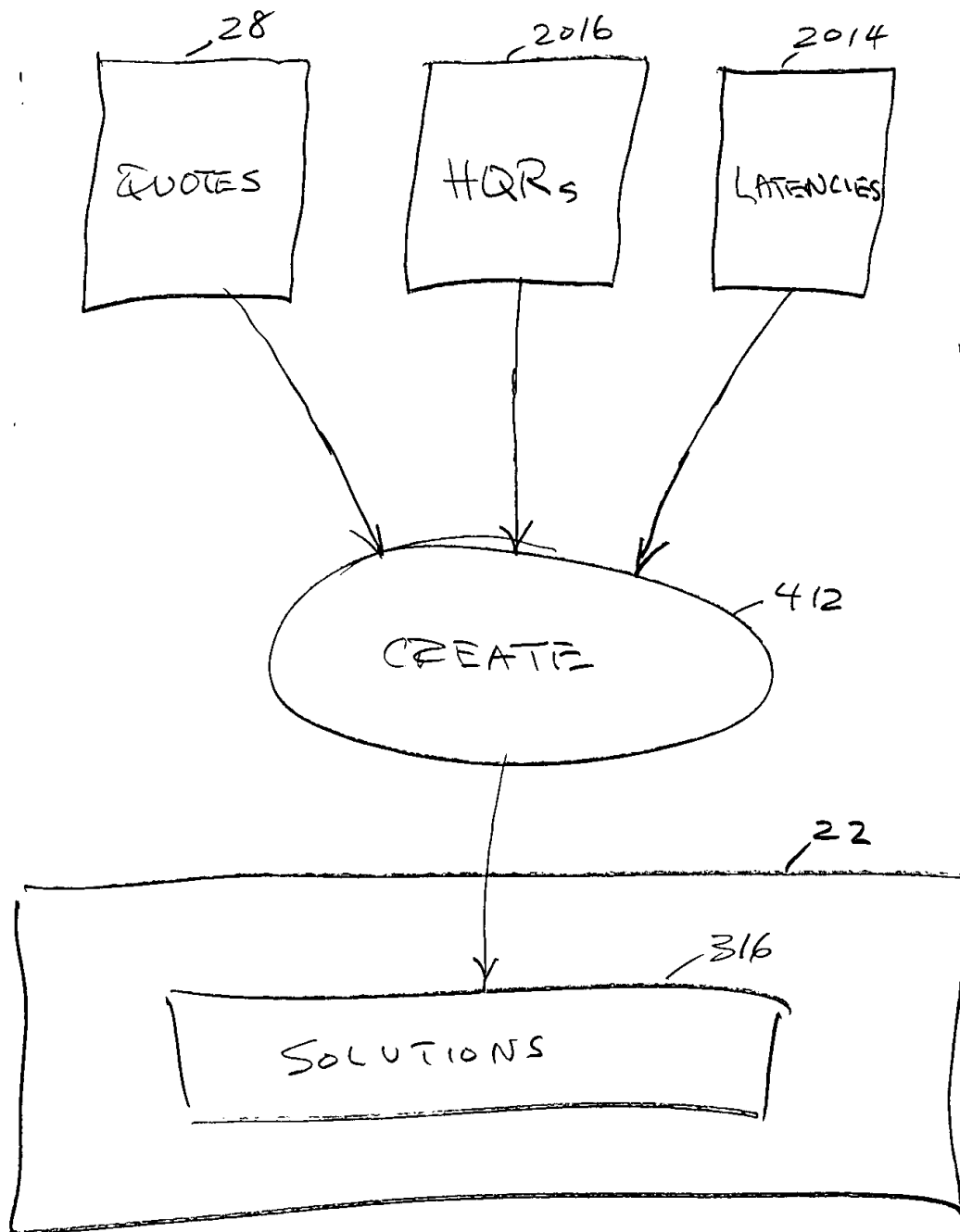
Fig. 3



SOLUTION GENERATION

Fig. 4

09576947.052500



CREATE SOLUTIONS

Fig. 4A

000000449550

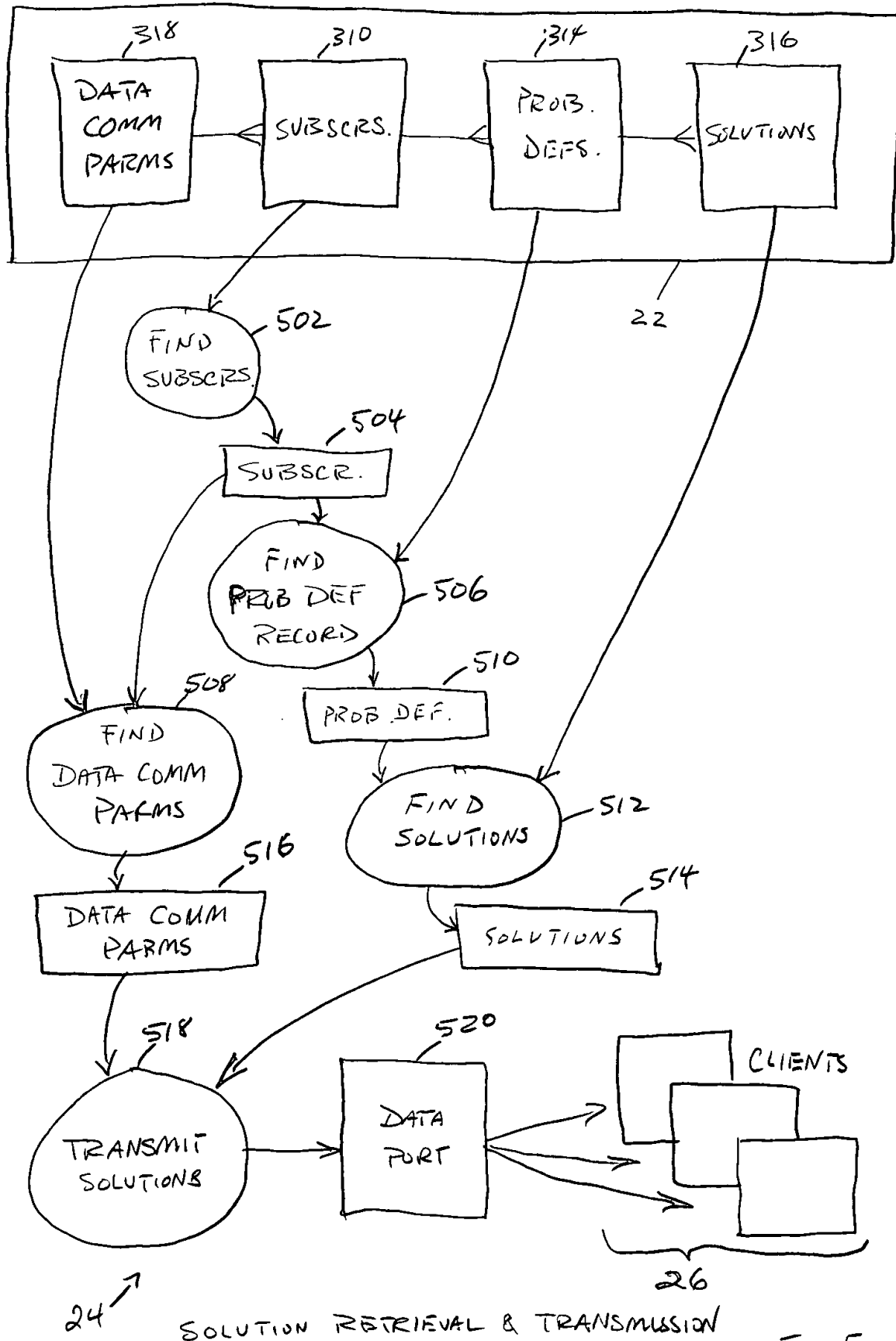


Fig. 5

```

graph TD
    602[CUSTOMER WORKSTATIONS] --> 604((RECEIVE))
    604 --> 606[Customer Order]
    606 --> 608((FIND SOLUTION))
    606 --> 316[SOLUTIONS]
    608 --> 610[SOLUTION]
    610 --> 614((CREATE SOLUTION ORDER))
    614 --> 616[SOLUTION ORDER]
    616 --> 612((SEND))
    612 --> 26[MARKETS]
    612 --> 24((COMMUNICATE SOLUTIONS))
    24 --> 316
    316 --> 210[SYMBOL]
    316 --> 226[TYPE]
  
```

Fig. 6

00576947.032500

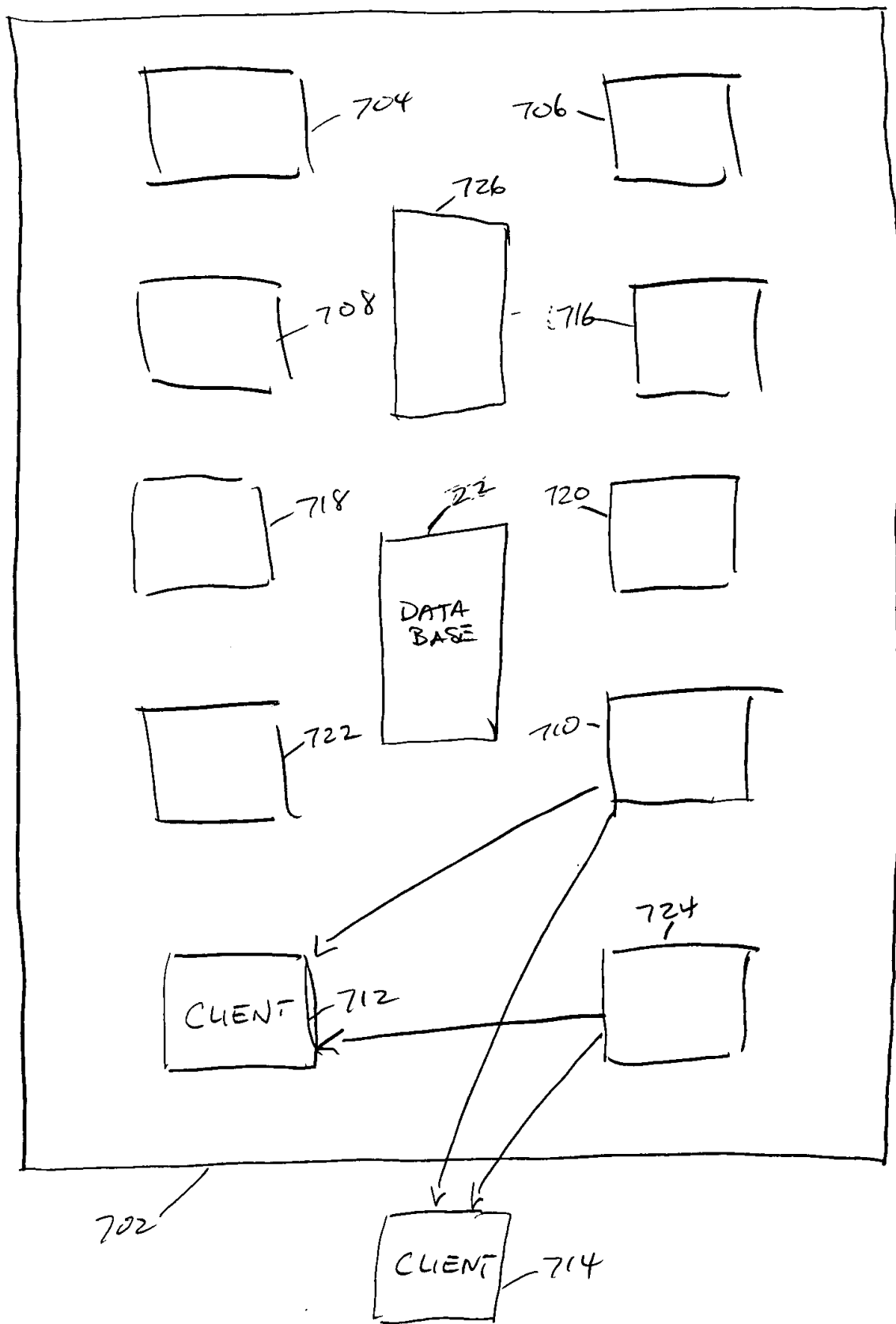


Fig. 7

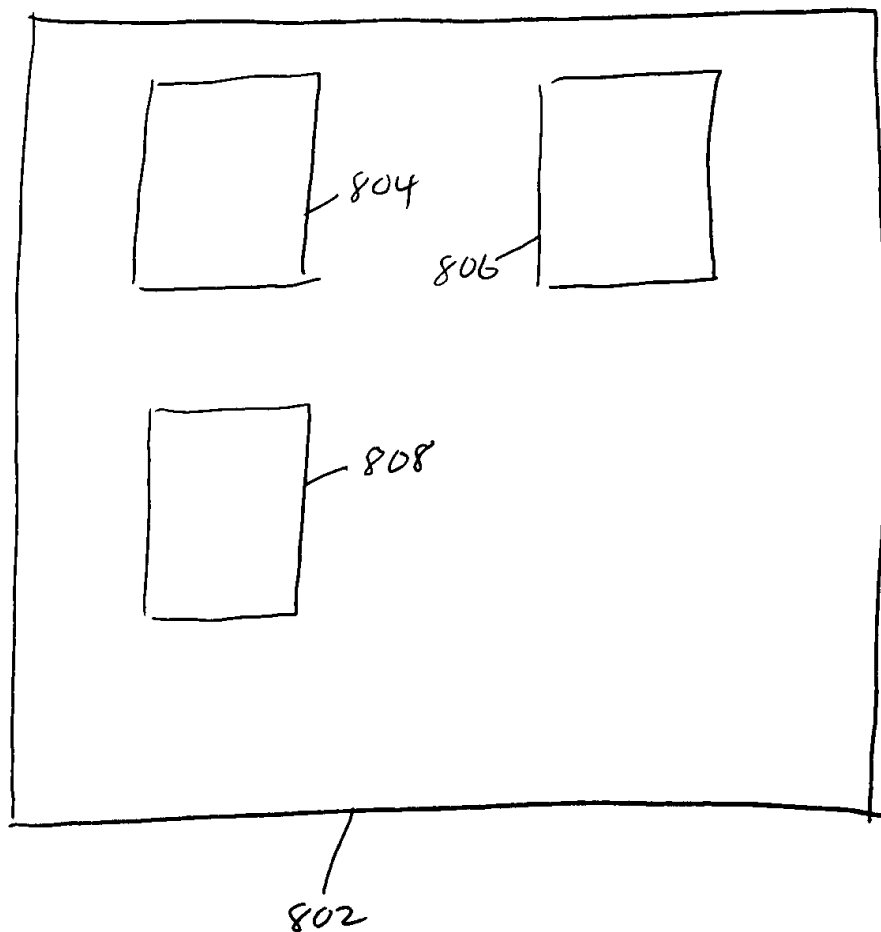
[illegible]

Fig. 8

A hand-drawn schematic diagram enclosed in a large rectangular border. The diagram consists of six rectangular blocks arranged in a 3x2 grid. Each block is connected to a numerical label by a short line. The labels are 904, 906, 908, 910, 912, and 914. A single line extends from the bottom center of the diagram, pointing to the label 902.

```
graph TD; 904[904] --- 906[906]; 908[908] --- 910[910]; 912[912] --- 914[914]; 902[902] --- 904; 902 --- 906; 902 --- 908; 902 --- 910; 902 --- 912; 902 --- 914;
```

A hand-drawn diagram illustrating a memory layout. It consists of five square blocks arranged in a grid-like fashion. Each block is connected by a line to a handwritten address:

- Top-left block: 1004.
- Top-right block: 1006
- Middle-left block: 1008
- Middle-right block: 1010
- Bottom-left block: 1012

At the bottom center of the diagram, there is a separate line pointing to the address 1002.

Fig. 10

1. The first part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The second part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The third part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The fourth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The fifth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The sixth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The seventh part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The eighth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The ninth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries. The tenth part of the paper is devoted to a review of the literature on the effects of the 1997-1998 Asian financial crisis on the economies of the Asian countries.

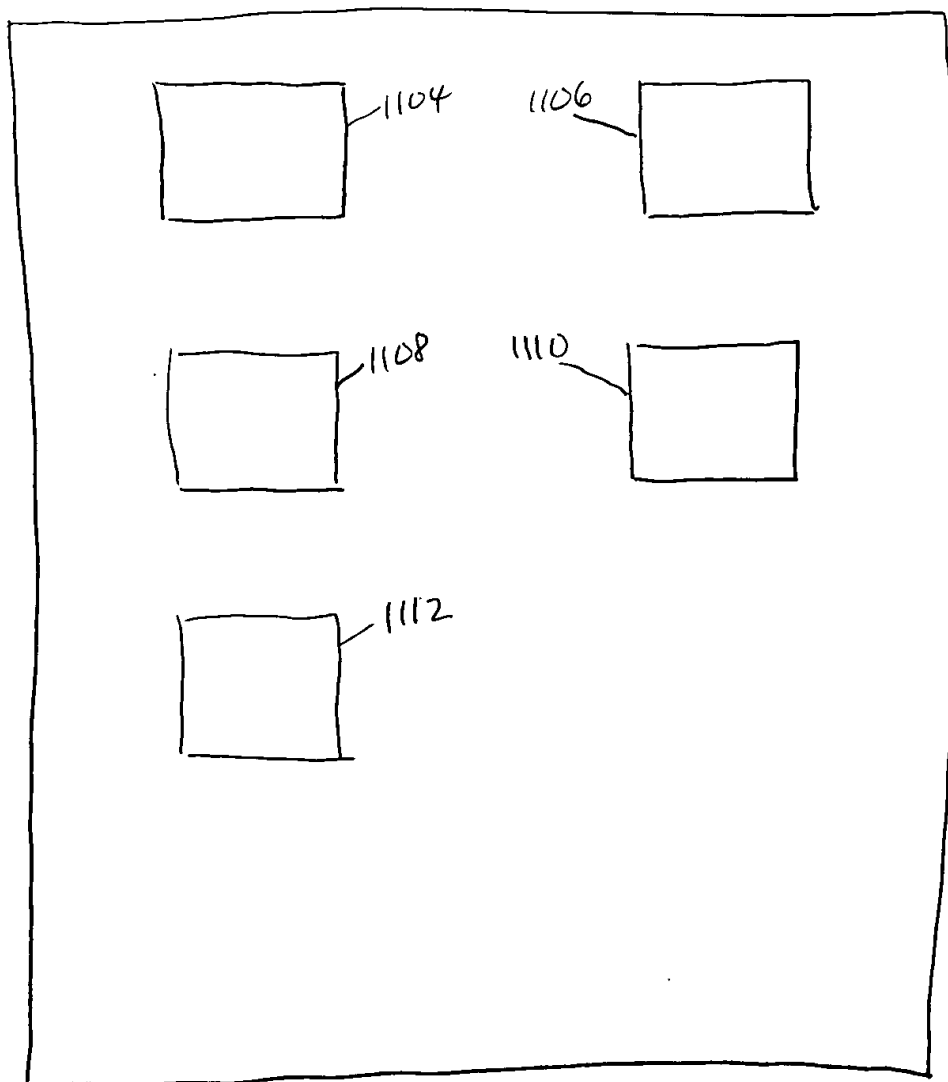


Fig. 11

00578947.052500

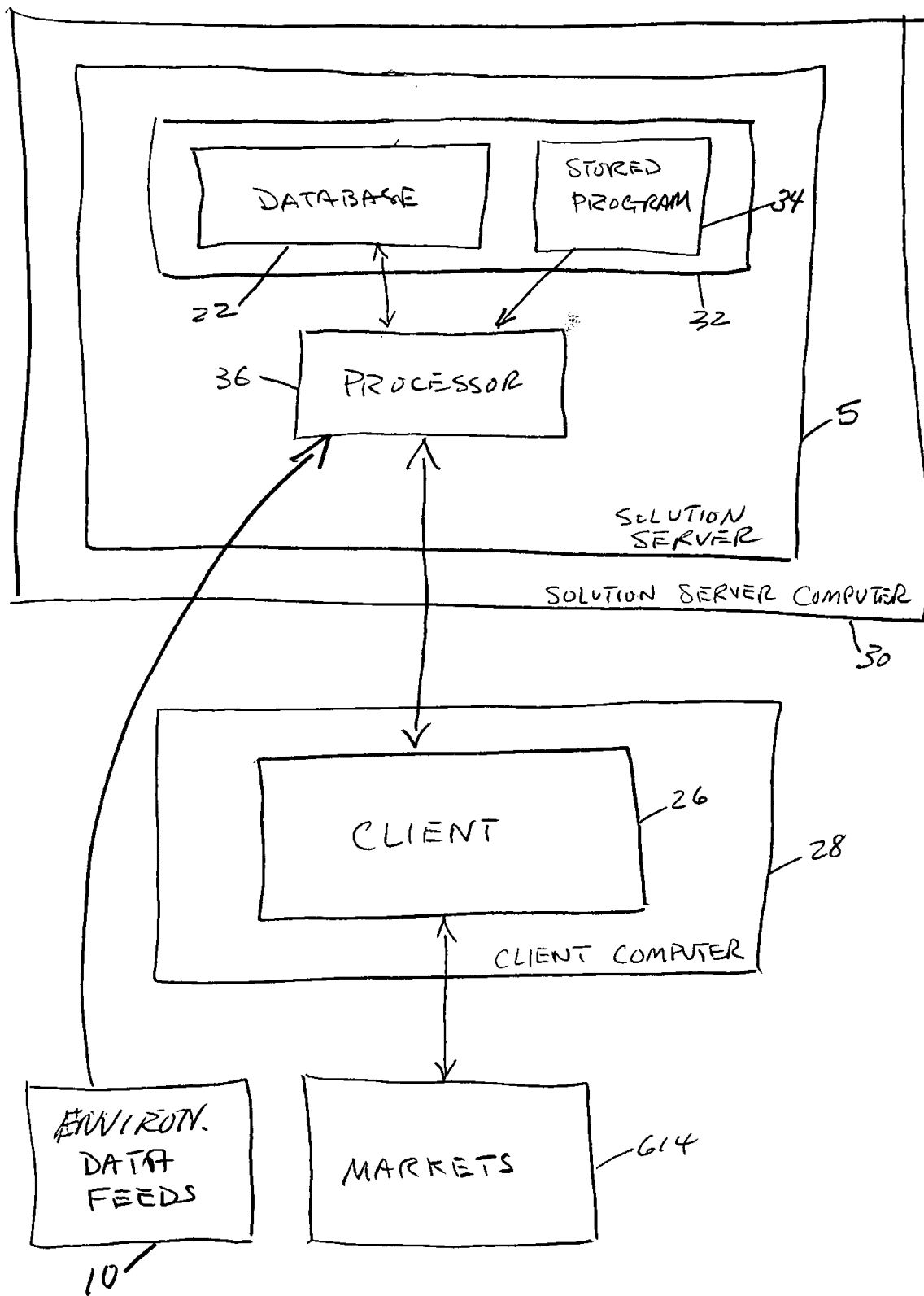


Fig. 12

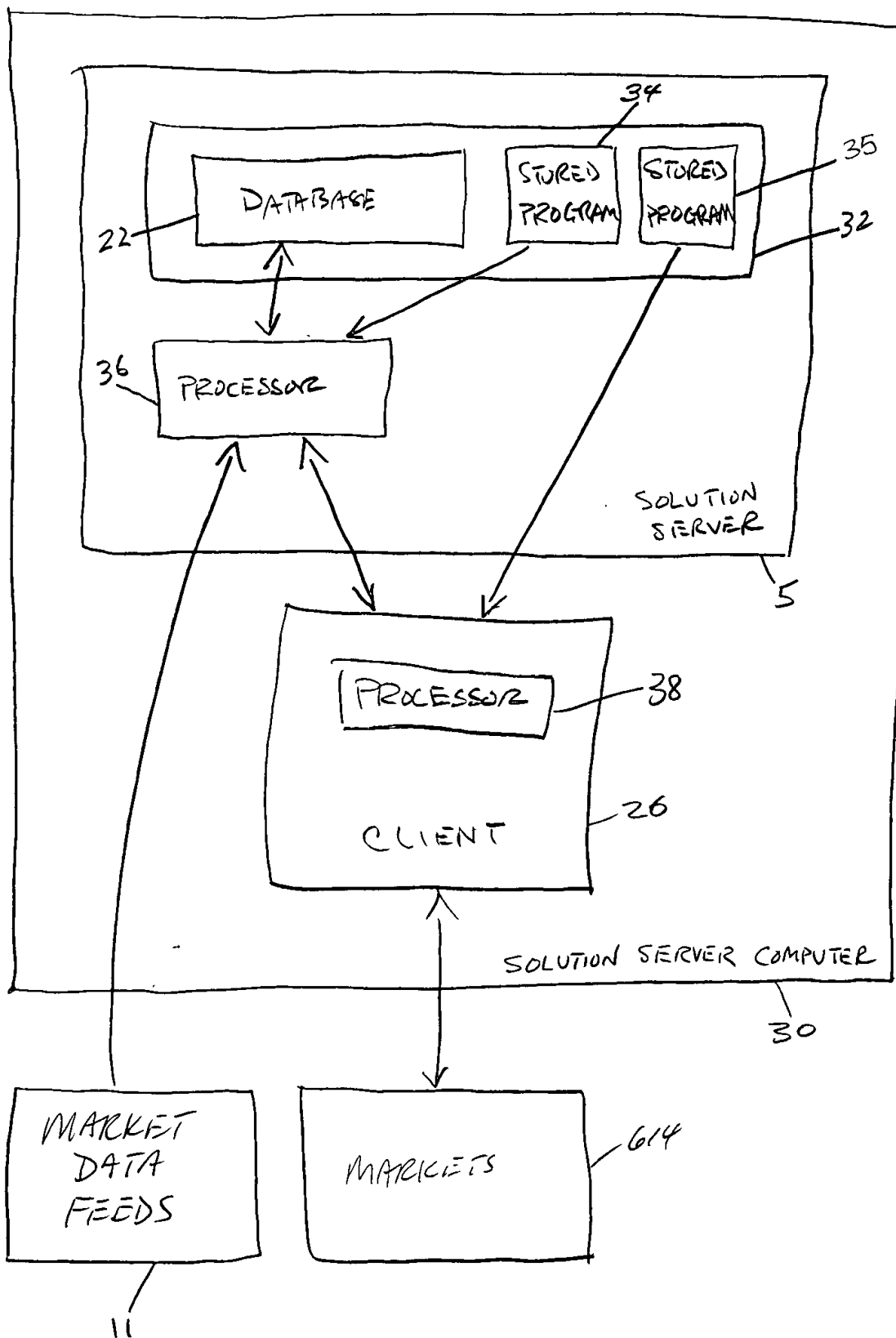
[illegible]

Fig. 13.

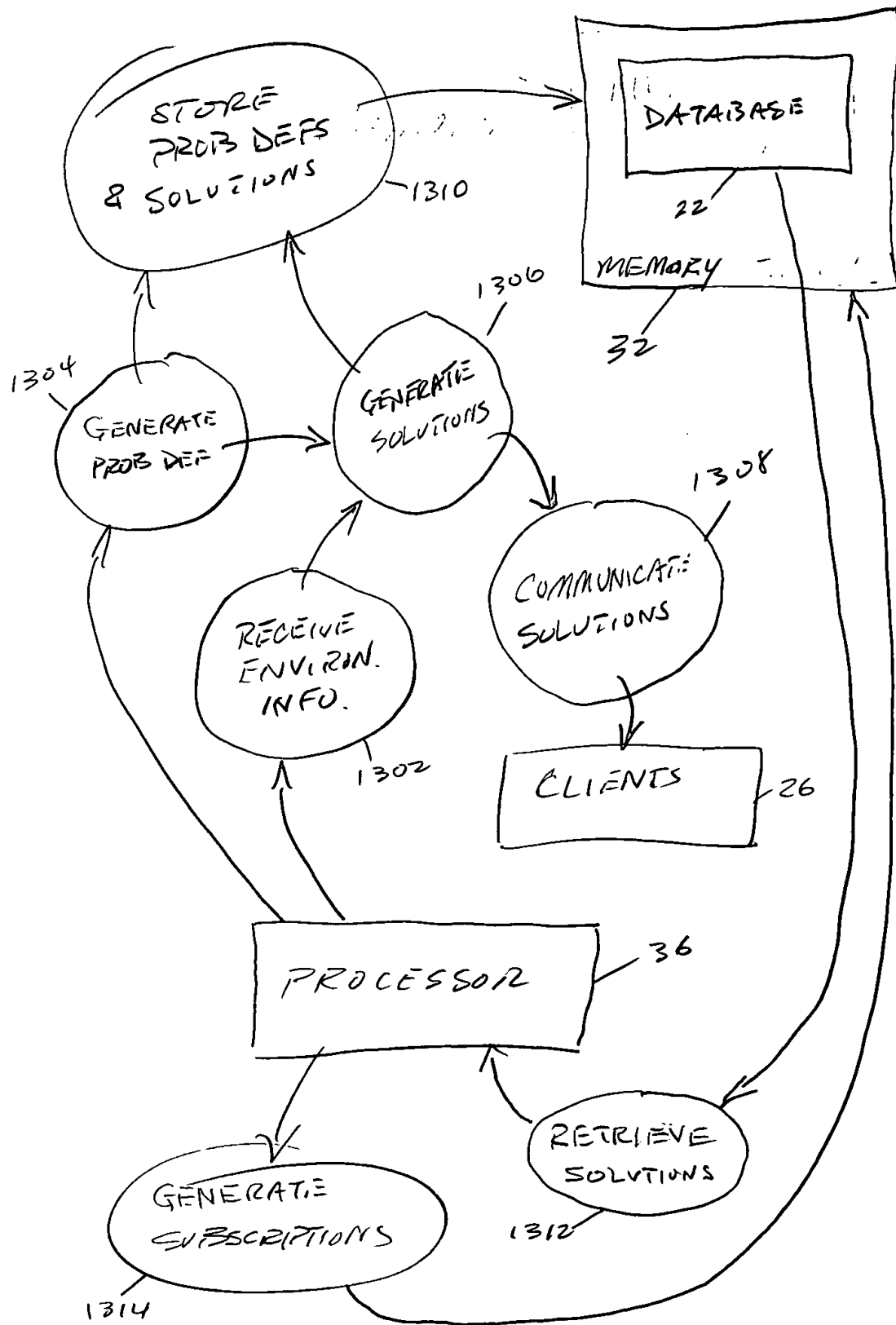
[illegible]

Fig. 14

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that it satisfies the functional equation $f(x+y) = f(x) + f(y)$. The function $f(x)$ is also shown to be differentiable and its derivative is found to be $f'(x) = f(x)$. This implies that $f(x) = Ce^x$ for some constant C . The value of C is determined by the initial condition $f(0) = 1$, which gives $C = 1$. Therefore, the function $f(x)$ is $f(x) = e^x$.

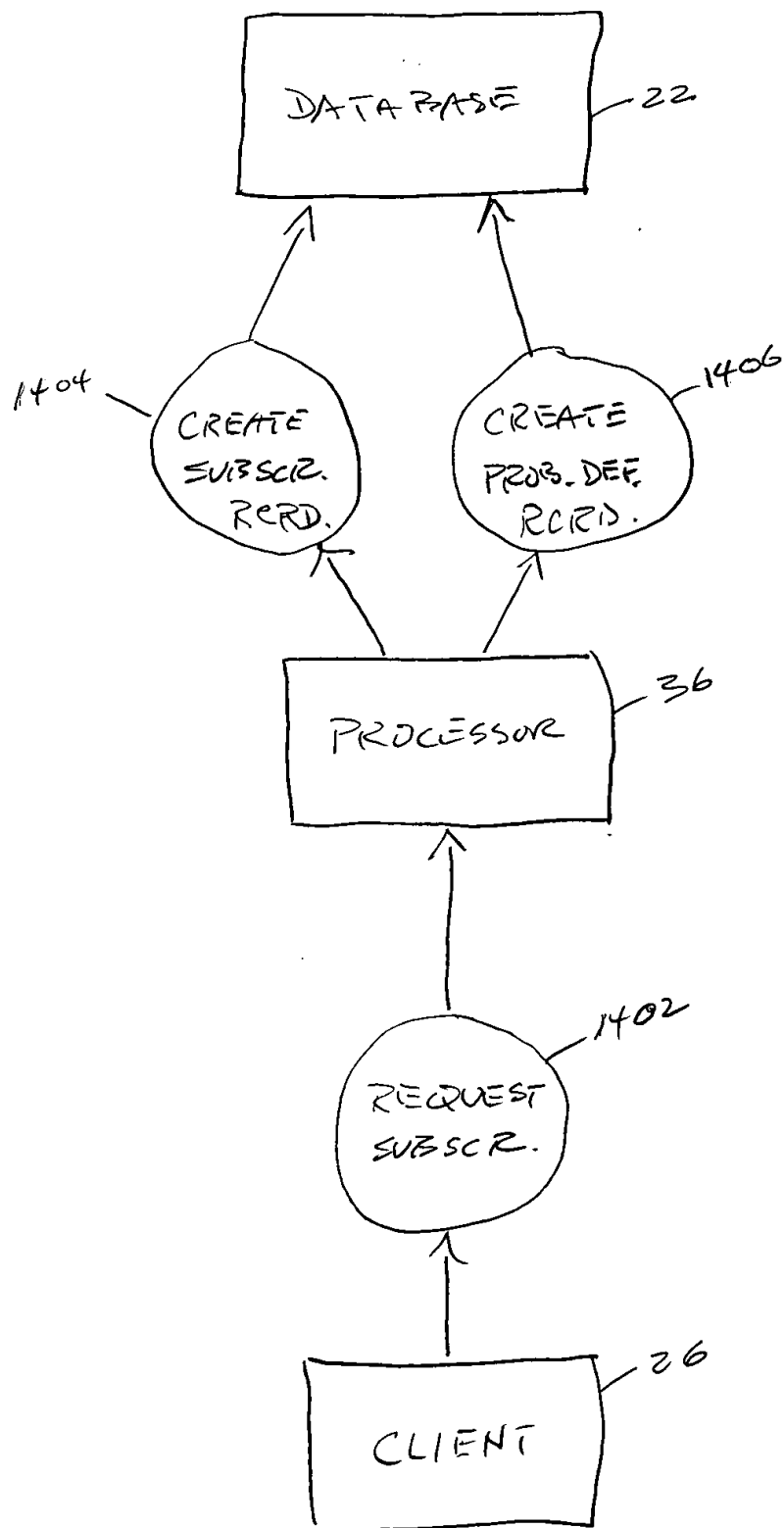


Fig. 15

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation $f(x) = \int_0^x f(t) dt$. It is shown that $f(x)$ is a continuous function and that it satisfies the functional equation $f(x+y) = f(x) + f(y)$.

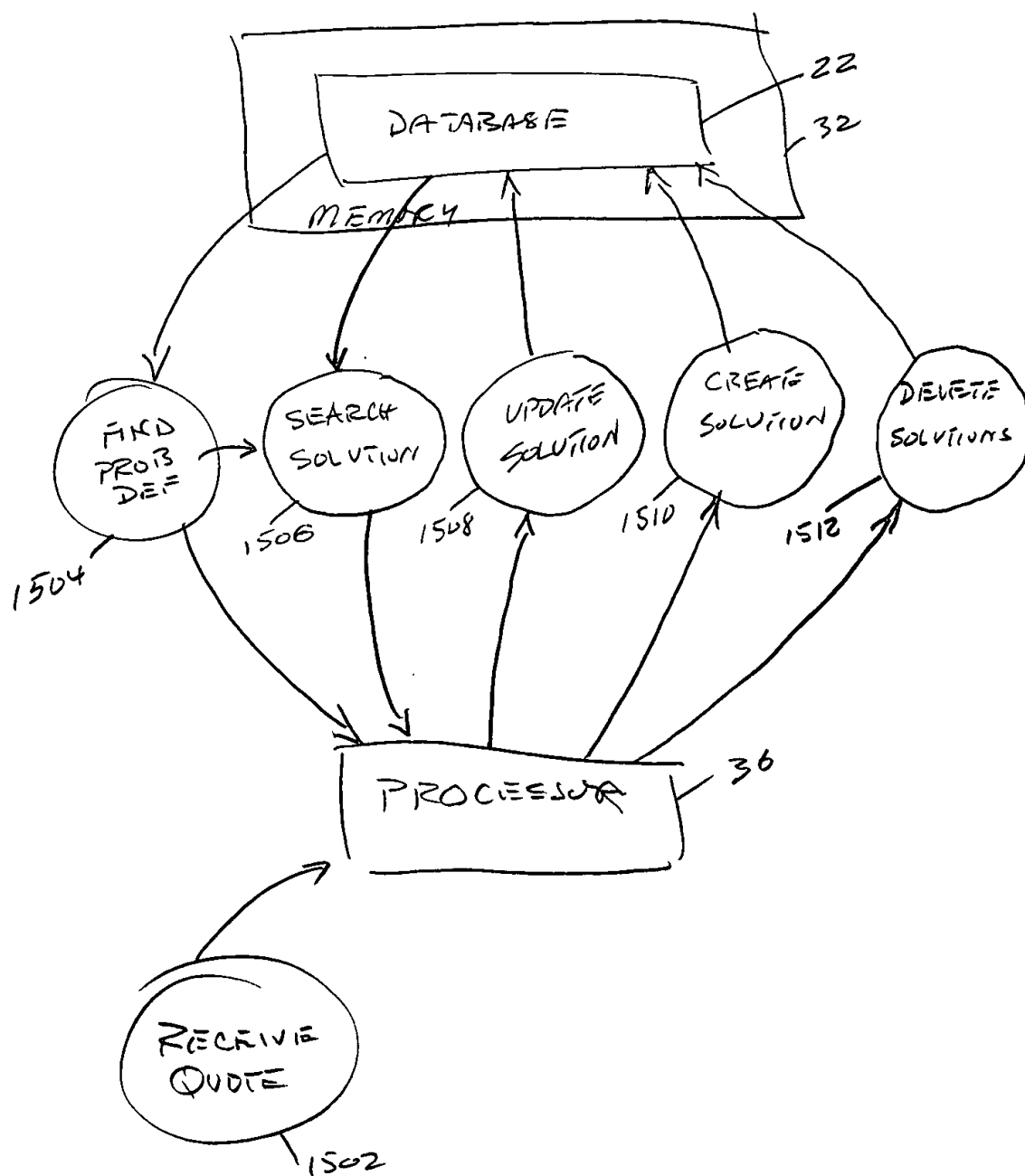


Fig. 16

005250 440560

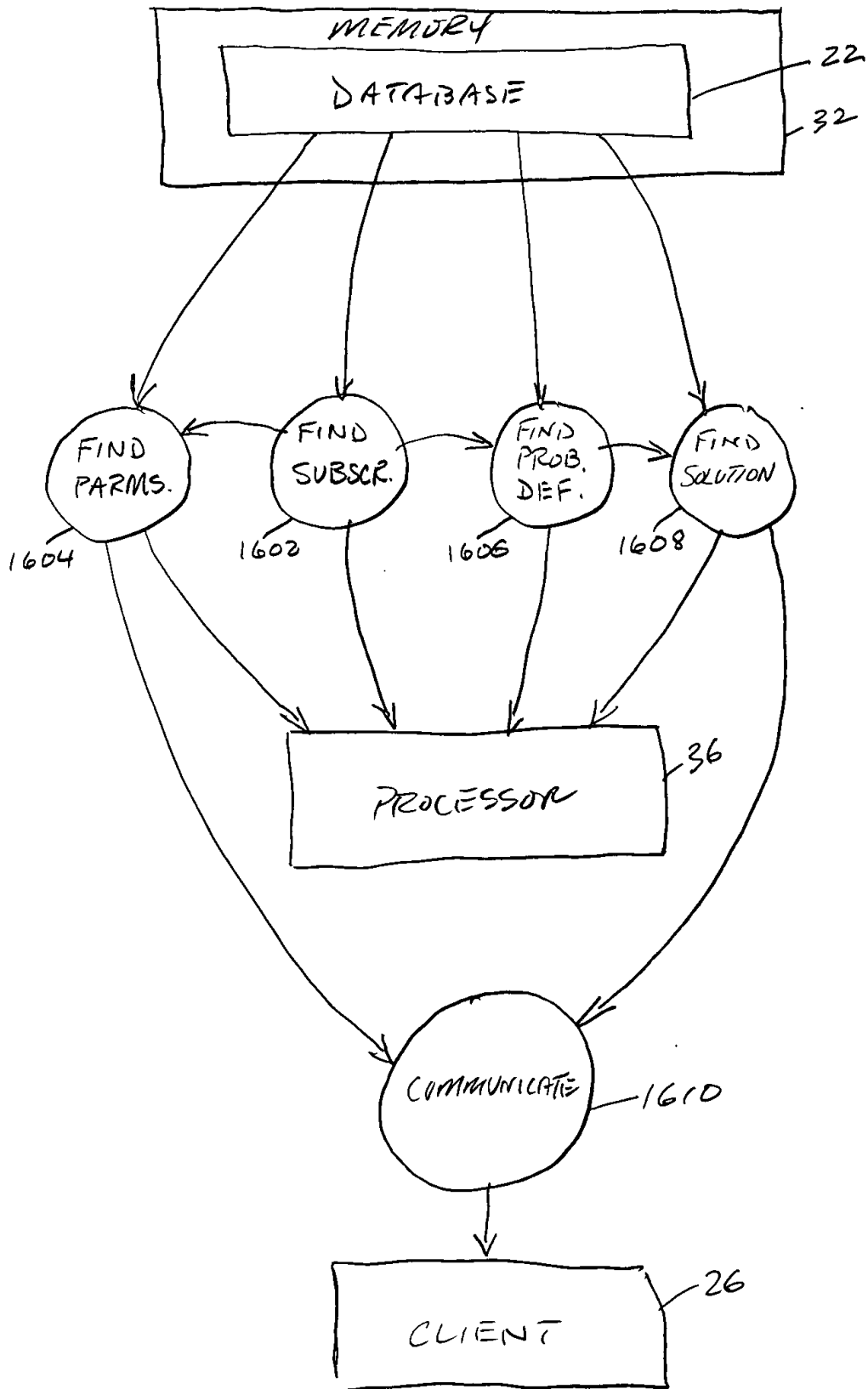


Fig. 17

[illegible]

Fig. 18

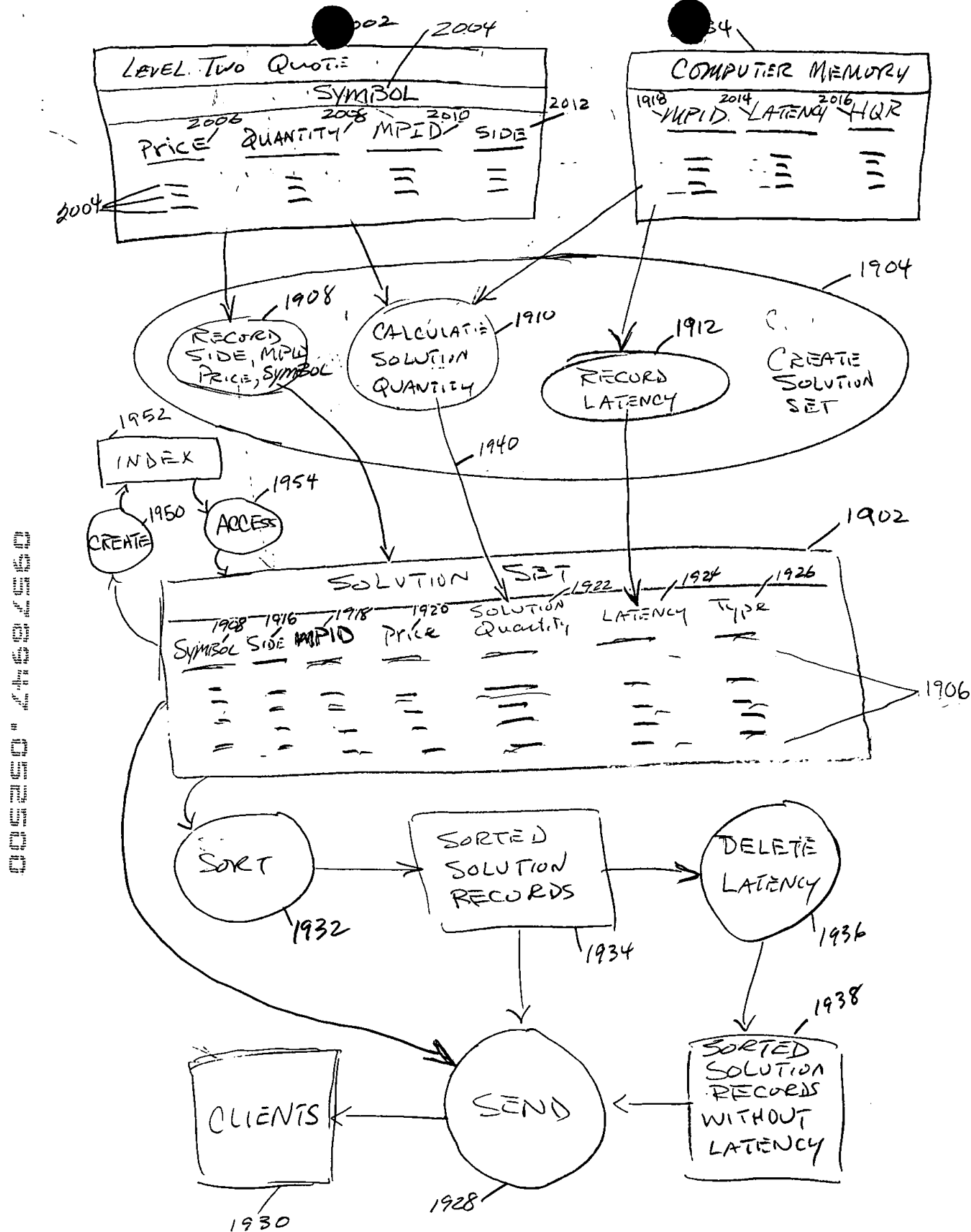


Fig. 19

Fig. 20A

Level Two Quote		SYMBOL	
Price ²⁰⁰⁶	Quantity ²⁰⁰⁸	SIDE ²⁰¹²	MPID ²⁰¹⁰
100	2000	BID	ARCH
100	1000	BID	INCA
101	500	ASK	GSCD
102	1500	ASK	MSCD

2004

Fig. 20B

09370947.052500

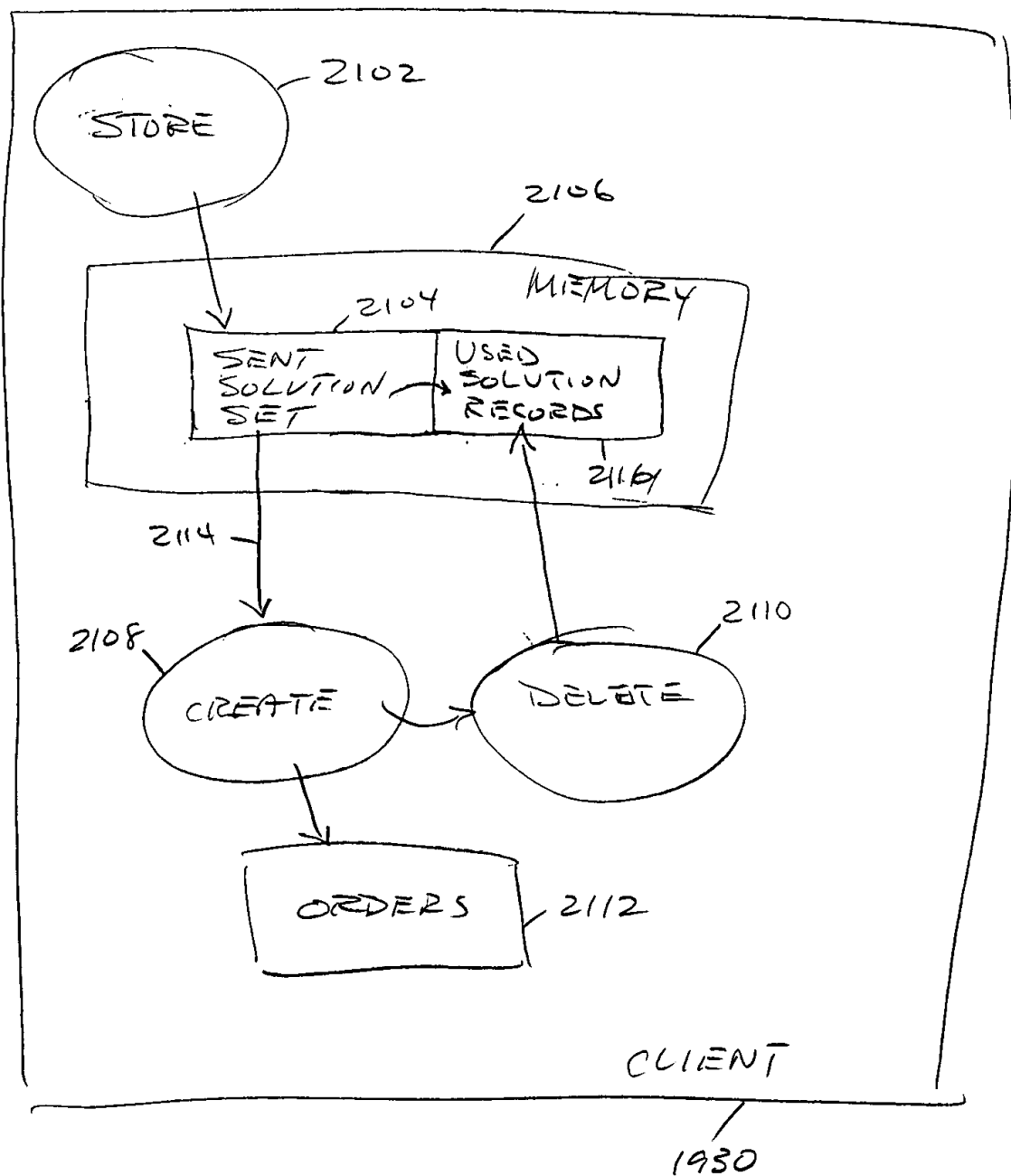


Fig. 21

1. *Staphylococcus aureus* (Staph. aureus)
 2. *Staphylococcus epidermidis* (Staph. epidermidis)
 3. *Staphylococcus saprophyticus* (Staph. saprophyticus)
 4. *Staphylococcus carnosus* (Staph. carnosus)
 5. *Staphylococcus sciuri* (Staph. sciuri)
 6. *Staphylococcus hyacinthi* (Staph. hyacinthi)
 7. *Staphylococcus albus* (Staph. albus)
 8. *Staphylococcus citreus* (Staph. citreus)
 9. *Staphylococcus gelae* (Staph. gelae)
 10. *Staphylococcus lentus* (Staph. lentus)
 11. *Staphylococcus marimoritum* (Staph. marimoritum)
 12. *Staphylococcus pasteurii* (Staph. pasteurii)
 13. *Staphylococcus saprophyticus* (Staph. saprophyticus)
 14. *Staphylococcus saprophyticus* (Staph. saprophyticus)
 15. *Staphylococcus saprophyticus* (Staph. saprophyticus)

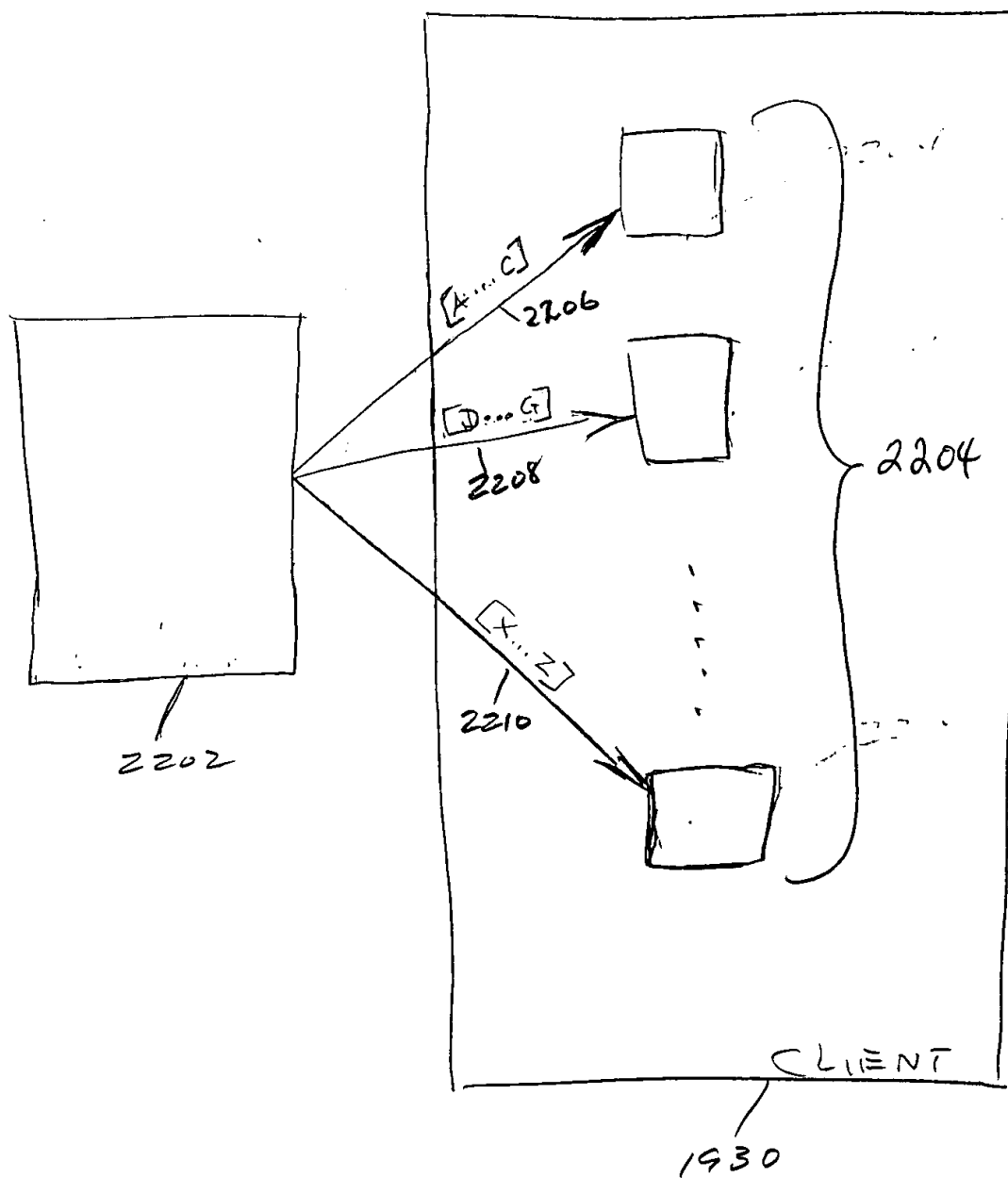


Fig. 22

[illegible]

Fig. 24

The diagram illustrates a system architecture with the following components and data flows:

- EXTERNAL COMPONENTS:**
 - SOURCE (2606):** Connected to **RECEIVE (2608)** and **PROCESSOR (2604)** via arrow 2610.
 - CLIENT (1930):** Connected to **PROCESSOR (2604)** via arrow 2612 and to **SEND (2622)** via arrow 2620.
 - HQR (2016):** Connected to **CALCULATE SOLUTION QUANTITY (2626)** via arrow 2628.
- PROCESSOR (2604):** The central processing unit, connected to **RECEIVE (2608)**, **SEND (2622)**, **CREATE (2614)**, **STORE (2616)**, and **DELETE (2636)**.
- DATA FLOW AND STORAGE:**
 - RECEIVE (2608)** feeds into **QUOTE (2002)**.
 - QUOTE (2002)** feeds into **RECORD (2624)**.
 - CREATE (2614)** and **STORE (2616)** feed into **SOLUTION SET (1902)**.
 - SOLUTION SET (1902)** contains a **TYPE** field and is connected to **RECORD (2624)** via arrow 2628.
 - SOLUTION SET (1902)** feeds into **CREATE INDEX (2634)**.
 - CREATE INDEX (2634)** feeds into **RECORD (2624)**.
 - RECORD (2624)** feeds into **CALCULATE SOLUTION QUANTITY (2626)**.
 - CALCULATE SOLUTION QUANTITY (2626)** feeds into **CREATE INDEX (2634)**.
 - DELETE (2636)** feeds into **SEND (2622)**.
 - SEND (2622)** feeds into **CLIENT (1930)** via arrow 2620.
 - SEND (2622)** also feeds into **STORE (2616)** via arrow 2618.
- MEMORY (2632):** A large container holding **QUOTE (2002)**, **SOLUTION SET (1902)**, and **SORTED SOLN. SET (2632)**.
- INTERNAL FLOWS:**
 - CREATE (2614)** feeds into **STORE (2616)**.
 - STORE (2616)** feeds into **SOLUTION SET (1902)**.
 - SOLUTION SET (1902)** feeds into **SORT (2630)**.
 - SORT (2630)** feeds into **CREATE INDEX (2634)**.
 - CREATE INDEX (2634)** feeds into **RECORD (2624)**.

Fig. 26

Fig. 26

Questions are asked about the results of the study.

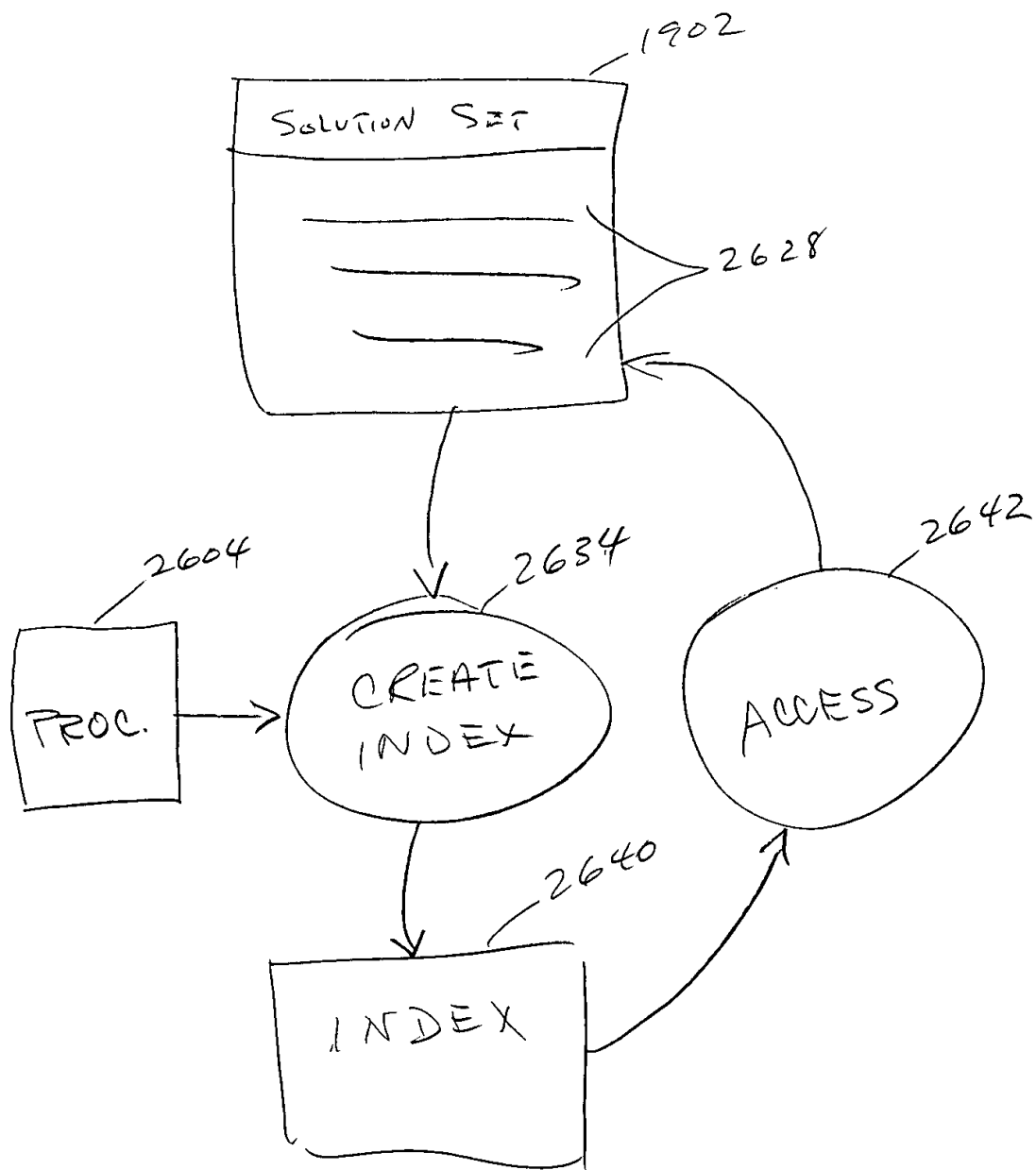
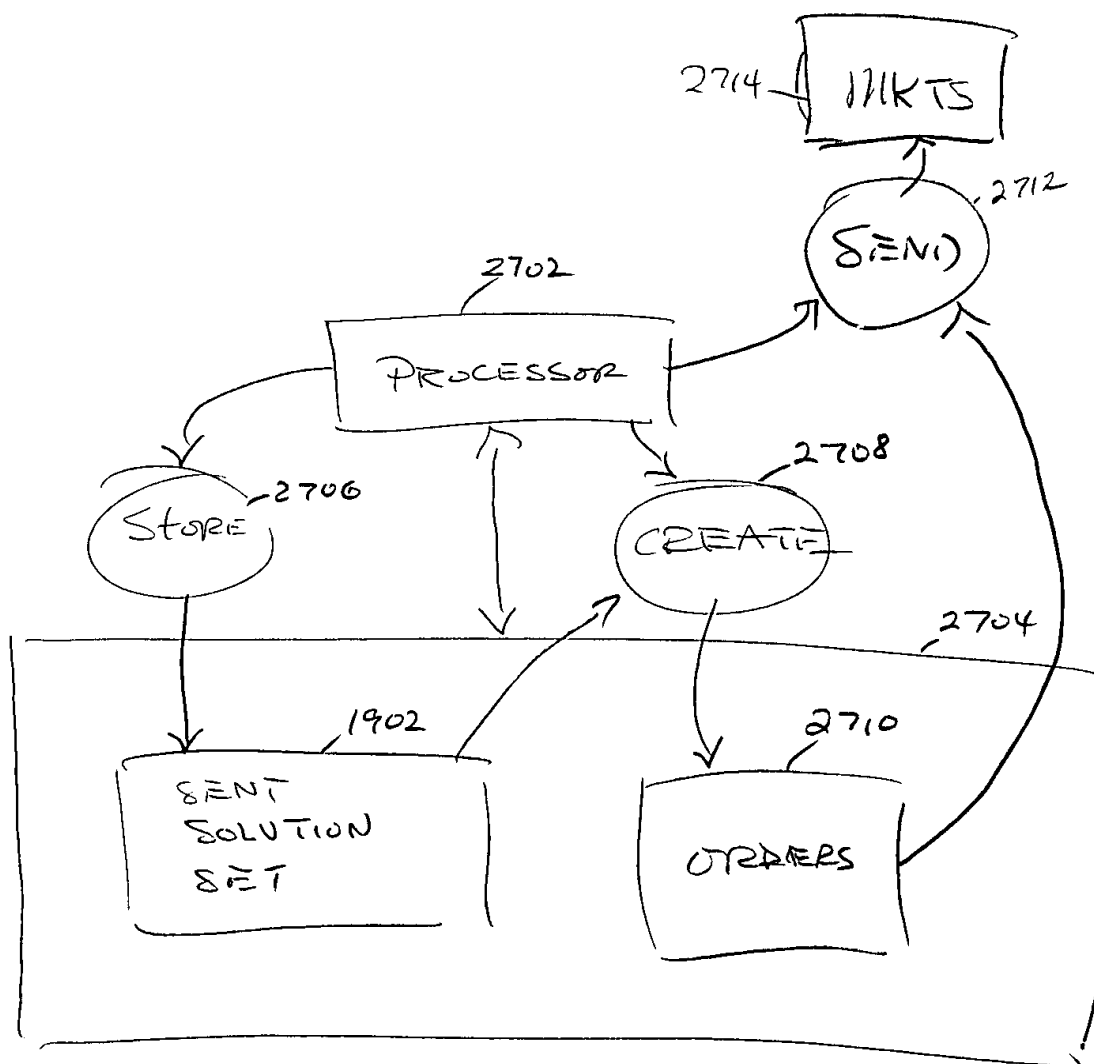


Fig. 26A

[illegible]

1930

Fig. 27

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Notes**
 10. **Tables**
 11. **Figures**
 12. **Supplementary Materials**
 13. **Abstract**
 14. **Keywords**
 15. **Subject Headings**
 16. **Conflict of Interest**
 17. **Acknowledgments**
 18. **Correspondence**
 19. **Received**
 20. **Accepted**
 21. **Published**
 22. **Copyright**
 23. **Disclaimer**
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 99. **Disclaimer**
 100. **Disclaimer**

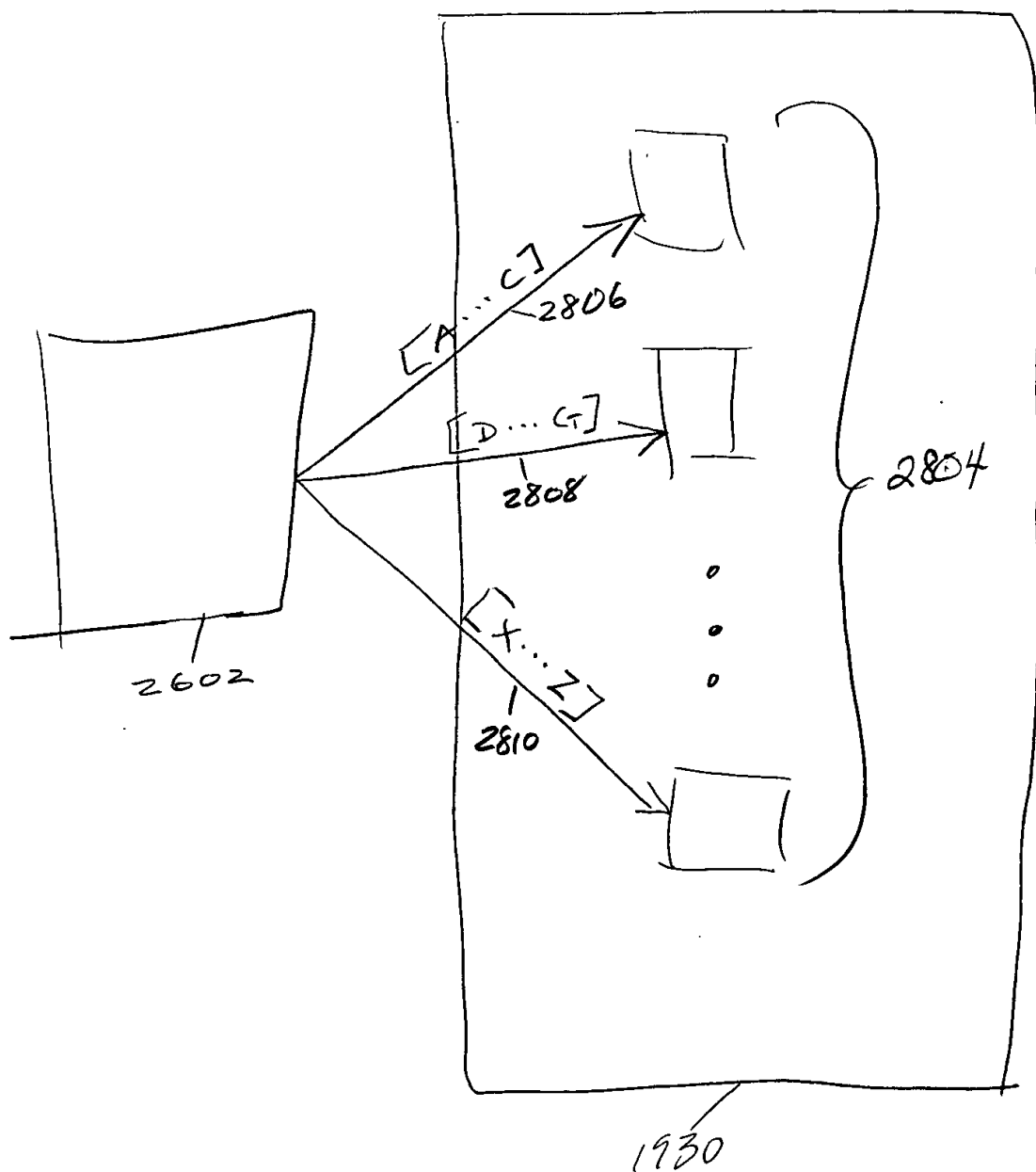


Fig. 28

Hand-drawn diagram illustrating the structure of an L-II Quote, showing fields and their corresponding years:

- 2004 — SYMBOL
- 2006 — PRICE
- 2008 — QUANTITY
- 2010 — MP(1)
- 2012 — SIDE

L-II Quote

2004 — SYMBOL

2006 \rightarrow rice

2008	QUANTITY
------	----------

2010-11 MP (1)

2012-15-17

RECORD

2624

SOLUTION SET

SOLUTION RECORD

SYMBOL-1908

PRICE - 1920

QUANTITY - 1922

→ MPID - 1968

→ Side — 1916

LATENCY — 1924

TYPE - 1926

1906

Fig. 29

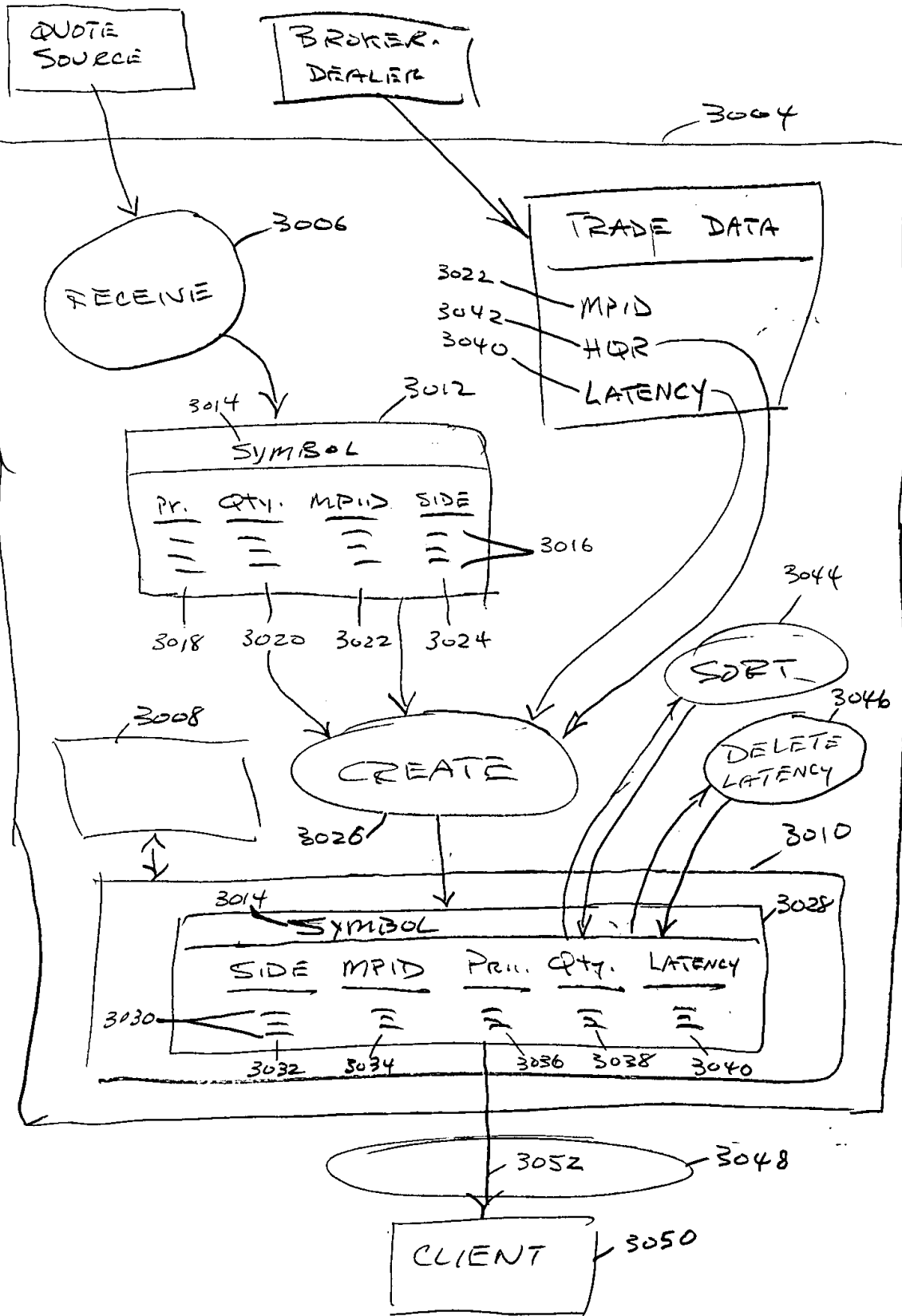


Fig. 30